

INVERTERS

MIN 3000-11400TL-XH-US

Hybrid inverter · Split-phase · 3 – 11.4 kW · 9 models


3 – 11.4 kW

RATED POWER

Split-phase

PHASE

2

MPPT TRACKERS

98 – 98.5 %

MAX. EFFICIENCY

Parameter	Unit	Common to all models
PV input		
Max. PV input voltage	V	600
Rated PV input voltage	V	360
MPPT voltage range	V	50 – 550
Start-up voltage	V	80
Max. input current per MPPT	A	13.5
Max. short-circuit current per MPPT	A	16.9
PV strings per MPPT		2
DC/AC ratio		2
AC output		
Rated AC voltage	V	240
Nominal AC voltage options	V	208 / 240
AC voltage range (@208 V / @240 V)	V	183-229 / 211-264
Phase		Split-phase
Rated AC frequency	Hz	50/60
AC grid frequency range	Hz	45 – 65
Power factor		>0.99 at nominal power; adjustable 0.8 leading to 0.8 lagging
Total harmonic distortion (THDi)	%	<3
AC grid connection type		L1 / L2 / N / PE
Backup nominal AC voltage	V	240
Backup output THD		2% (linear load); 5% (non-linear load)
AC port, V2 inverter		2 AC ports (1 on-grid, 1 backup/EPS); compatible with an automatic transfer switch for partial-home backup
AC port, V3 inverter		1 AC port (on-grid); compatible with the dedicated whole-home backup unit
Max. motor load supported	HP	5.5

Parameter	Unit	Common to all models
Battery		
Battery type		Lithium iron phosphate (LFP)
Battery voltage range	V	360 – 550
Nominal battery voltage	V	400
Protection		
Protection functions		DC reverse-polarity protection; DC switch; DC surge protection (Type II); Insulation resistance monitoring; AC surge protection (Type III); AC short-circuit protection; Ground fault monitoring; Grid monitoring; Anti-islanding protection; Residual-current monitoring unit; AFCI protection
General data		
Ingress protection (IP rating)		IP65
NEMA enclosure rating		4X
Operating temperature range	°C	–25 – 60
Power derating above	°C	45
Relative humidity	%	0 – 95
Max. operating altitude	m	3000
Night-time power consumption	W	<5
Cooling		Natural convection
Revenue grade meter		ANSI C12.20 (0.5% accuracy)
Warranty	years	10
Communication		
Communication interfaces		RS485; Wi-Fi (optional); 4G (optional)
Certifications		
Certifications and standards		UL 1741; UL 1741SA; UL 1741SB; UL 1699B; IEEE 1547; IEEE 1547.1; HECO SRD-IEEE-1547.1; CSA C22.2 No. 107.1; UL 9540; FCC Part 15 Class B
Grid codes		UL 1741 SA/SB; CA Rule 21; HECO
Rapid shutdown (RSD) compliance		UL 1741 PVRSS; NEC 2020 690.12

Parameter	Unit	MIN 3000TL-XH-US	MIN 3800TL-XH-US	MIN 5000TL-XH-US	MIN 6000TL-XH-US	MIN 7600TL-XH-US
PV input						
Max. PV input power	W	6000	7600	10000	12000	15200
Full-load voltage range	V	120 – 500	150 – 500	200 – 500	160 – 500	200 – 500
Number of MPPT trackers		2			3	
AC output						
Rated output power	W	3000	3800	5000	6000	7600
AC nominal power @208 V	W	2600	3290	4330	5200	6580
Max. apparent power	VA	3000	3800	5000	6000	7600
Max. AC output current	A	12.5	16	21	25	32
Max. output overcurrent protection	A	20		30	40	

Parameter	Unit	MIN 3000TL-XH-US	MIN 3800TL-XH-US	MIN 5000TL-XH-US	MIN 6000TL-XH-US	MIN 7600TL-XH-US
Backup output power	W	3000	3800	5000	6000	7600
Backup max. AC power output	VA	4700	6000	7900	9400	12000
Backup max. output current	A	20	25	33	40	50
Battery						
Max. charge current	A	8.9	11.1	14.4	17.2	21.7
Max. discharge current	A	8.9	11.1	14.4	17.2	21.7
Max. charge power	W	3200	4000	5200	6200	7800
Max. discharge power	W	3200	4000	5200	6200	7800
Efficiency						
Max. efficiency	%	98		98.2	98.4	
CEC efficiency	%	97		97.5	97	97.5
CEC efficiency @208 V	%	96.5	97.0	97.5	97.0	
General data						
Dimensions (W x H x D)	mm	400 × 569 × 170.5				
Weight	kg	14.65				

Parameter	Unit	MIN 8200TL-XH-US	MIN 9000TL-XH-US	MIN 10000TL-XH-US	MIN 11400TL-XH-US
PV input					
Max. PV input power	W	16400	18000	20000	22800
Full-load voltage range	V	160 – 500	180 – 500	200 – 500	220 – 500
Number of MPPT trackers	4				
AC output					
Rated output power	W	8200	9000	10000	11400
AC nominal power @208 V	W	7100	7800	8660	9880
Max. apparent power	VA	8200	9000	10000	11400
Max. AC output current	A	35	38	42	48
Max. output overcurrent protection	A	63			
Backup output power	W	8200	9000	10000	11400
Backup max. AC power output	VA	12900	14200	15800	18000
Backup max. output current	A	54	59	66	75
Battery					
Max. charge current	A	23.6	25.8	28.6	32.5
Max. discharge current	A	23.6	25.8	28.6	32.5
Max. charge power	W	8500	9300	10300	11700
Max. discharge power	W	8500	9300	10300	11700

Parameter	Unit	MIN 8200TL-XH-US	MIN 9000TL-XH-US	MIN 10000TL-XH-US	MIN 11400TL-XH-US
Efficiency					
Max. efficiency	%	98.3			98.5
CEC efficiency	%	97.5			98
CEC efficiency @208 V	%	97.5			
General data					
Dimensions (W x H x D)	mm	400 × 638 × 187			
Weight	kg	20.5			

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.
XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

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